

**United States Department of the Interior
Bureau of Land Management**

**Environmental Assessment
Marys River Oil and Gas Exploration Project**

DOI-BLM-NV-E030-2013-0007-EA

File Numbers:
NVN-088625,
NVN-088620,
NVN-081212,
NVN-086576,
NVN-088623

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March 2014



MISSION STATEMENT

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TABLE OF CONTENTS

CHAPTER 4 – TRIBES, INDIVIDUALS, ORGANIZATIONS, OR AGENCIES CONSULTED.....	179
CHAPTER 5 – LIST OF PREPARERS	180

List of Appendices

Appendix A	Transportation Plan
Appendix B	Marys River Integrated Weed Management Plan
Appendix C	Marys River Reclamation Plan
Appendix D	Fire Prevention Plan Measures
Appendix E	Greater Sage-Grouse Management Plan
Appendix F	Memorandum of Understanding – Aqua Program
Appendix G	Lease Stipulations
Appendix H	Typical Drawings
Appendix I	Narrative of Completion and Stimulation
Appendix J	Noxious Weeds Included on the Nevada Noxious Weed List
Appendix K	Species' Common and Scientific Names
Appendix L	Bird Species Reported on National Biological Survey Breeding Bird Survey Routes within 100 Miles of the Marys River Project Area, 1992 to 2011

List of Abbreviations and Acronyms

µg/m ³	micrograms per cubic meter
ADT	average daily traffic
af/yr	acre-feet per year
amsl	above mean sea level
AO	Authorized Officer
APDs	Applications for Permit-to-Drill
APE	Area of Potential Effect
AQRVs	Air Quality Related Values
Aqua Program	Aquifer Quality Assessment Program
AUMs	animal unit months
BAPC	Bureau of Air Pollution Control
BAQP	Bureau of Air Quality Planning
BBCS	Bird and Bat Conservation Strategy
BBS	Breeding Bird Survey
BCC	Birds of Conservation Concern
BCR	Bird Conservation Regions
BEA	Bureau of Economic Analysis
BGEP	Bald and Golden Eagle Protection Act
BLM	Bureau of Land Management
BLS	Bureau of Labor Statistics
BMPs	Best Management Practices
BOPE	Blowout Preventer Equipment
Brennan	J.C. Brennan & Associates, Inc.
BSCs	biological soil crusts
BTEX	benzene, toluene, ethyl benzene, and xylene
BWQP	Bureau of Water Quality Planning
°C	degrees centigrade
CAS	Chemical Abstract Service
CASTNET	Clean Air Status and Trends Network
CESAs	Cumulative Effects Study Areas

CEQ	Council on Environmental Quality
CFR	Code of Federal Regulations
cfs	cubic feet per second
CH ₄	methane
CMP	Comprehensive Management and Use Plan
CNHT	California National Historic Trail
CO	carbon monoxide
CO ₂	carbon dioxide
CO ₂ e	carbon dioxide equivalent
COAs	Conditions of Approval
CR	County Road
CRA	Cultural Resource Analysts, Inc.
CSPRR	Central and Southern Pacific Railroad
dB	decibels
DOI	U.S. Department of the Interior
DPS	Distinct Population Segment
DRI	Desert Research Institute
EA	Environmental Assessment
EIA	Energy Information Administration
EIS	Environmental Impact Statement
EO	Executive Order
EPA	U.S. Environmental Protection Agency
ESA	Endangered Species Act
°F	degrees Fahrenheit
FEMA	Federal Emergency Management Agency
FLMs	Federal Land Managers
FLPMA	Federal Land Policy and Management Act
FML	federal mineral lease
FMUs	Fire Management Units
GHGs	greenhouse gases
GIS	Geographic Information System
GWP	Global Warming Potential
HAPs	hazardous air pollutants
HUC	Hydrologic Unit Code
HWA	Hayden-Wing Associates
IDA	International Dark-Sky Association
IM	Instruction Memorandum
IMPROVE	Interagency Monitoring of Protected Visual Environments
JBR	JBR Environmental Consultants, Inc.
KCL	potassium chloride
km	kilometer
LIDAR	light detection and ranging
MBTA	Migratory Bird Treaty Act
MLA	Mineral Leasing Act
MOA	Memorandum of Agreement
MOU	Memorandum of Understanding
mph	miles per hour
MSDS	Material Data Safety Sheets
MSUPO	Master Surface Use Plan of Operations
MWD	measurement while drilling
NAAQS	National Ambient Air Quality Standards
NAC	Nevada Administrative Code
NADP	National Acid Deposition Program
NAGPRA	Native American Graves Protection and Repatriation Act
NAIP	National Agricultural Imagery Photography
NDEP	Nevada Division of Environmental Protection

NDETR	Nevada Department of Employment, Training and Rehabilitation
NDOA	Nevada Department of Agriculture
NDOM	Nevada Division of Minerals
NDOT	Nevada Department of Transportation
NDOW	Nevada Department of Wildlife
NDT	Nevada Department of Taxation
NDWR	Nevada Division of Water Resources
NEPA	National Environmental Policy Act
Nevada AAQS	Nevada Ambient Air Quality Standards
NGSCT	Nevada Governor's Sage-grouse Conservation Team
NHPA	National Historic Preservation Act
NNHP	Nevada Natural Heritage Program
NO ₂	nitrogen dioxide
NO _x	nitrogen oxides
Noble	Noble Energy, Inc.
NPS	National Park Service
NRC	Nuclear Regulatory Commission
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NRS	Nevada Revised Statutes
NSDO	Nevada State Demographer's Office
NTN	National Trends Network
NTSA	National Trails System Act
NTT	National Technical Team
NWI	National Wetland Inventory
NWS	National Weather Service
O ₃	ozone
OCTA	Oregon and California Trails Association
OHV	off-highway vehicle
PFYC	Potential Fossil Yield Classification
PGH	Preliminary General Habitat
PM ₁₀	particulate matter less than 10 microns in effective diameter
PM _{2.5}	particulate matter less than 2.5 microns in effective diameter
PMU	Population Management Unit
PPH	Preliminary Priority Habitat
ppm	parts per million
PSD	Prevention of Significant Deterioration
PVC	polyvinyl chloride
RCRA	Resource Conservation and Recovery Act
RFFAs	Reasonably Foreseeable Future Actions
RMP	Resource Management Plan
ROW	Right-of-Way
RV	recreational vehicle
SAD	Surface Area Disturbance
SHPO	State Historic Preservation Officer
SO ₂	sulfur dioxide
SO _x	sulfur oxides
SPRR	Southern Pacific Railroad
SR	State Route
SVR	Standard Visual Range
tpy	tons per year
TRMP	Trails Regional Mitigation Plan
UIC	Underground Injection Control
UPRR	Union Pacific Railroad
US	U.S. Highway
USC	United States Code

USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
VFD	Volunteer Fire Department
IEWS	Visibility Information Exchange Web System
VOCs	volatile organic compounds
VRM	Visual Resource Management
WCRM	Western Cultural Resource Management, Inc.
WRCC	Western Regional Climate Center

CHAPTER 4 – TRIBES, INDIVIDUALS, ORGANIZATIONS, OR AGENCIES CONSULTED

The BLM sent letters (dated December 18, 2012) to or consulted with the following:

Tribes

Battle Mountain Band Council
Confederate Tribes of the Goshute Indian Reservation
Duckwater Shoshone Tribe
Elko Band Council
Ely Shoshone Tribe
Shoshone Paiute Tribes of the Duck Valley Indian Reservation
South Fork Band Council
Te-Moak Tribe of Western Shoshone
Wells Band Council
Yomba Shoshone Tribe

Agencies

Nevada Department of Wildlife
Bureau of Indian Affairs
Western Shoshone Committee
Western Shoshone Defense Project
Western Shoshone Descendants of Big Smoky

CHAPTER 5 – LIST OF PREPARERS

BLM INTERDISCIPLINARY REVIEW

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Name	Resource/Responsibility
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Josh Moro	Visual Resources Management, Recreation, Fire Management
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Appendix A
Transportation Plan

Appendix B

Marys River Integrated Weed Management Plan

Appendix C

Marys River Reclamation Plan

Appendix D

Fire Prevention Plan Measures

Appendix E

Greater Sage-Grouse Management Plan

Appendix F

Memorandum of Understanding – Aqua Program

Appendix G

Lease Stipulations

Appendix H

Typical Drawings

Appendix I

Narrative of Completion and Stimulation

Appendix J

Noxious Weeds Included on the Nevada Noxious Weed List

Appendix K

Species' Common and Scientific Names

Appendix L

Bird Species Reported on National Biological Survey Breeding Bird Survey Routes within 100 Miles of the Marys River Project Area, 1992 to 2011